



SWE002

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Sunnyway Technology

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1. Electrical Specification

Standards	4G/3G/2G/NB-IoT/CAT M1	
Frequency range (MHz)	824~960MHz	1710~2690MHz
Peak Gain (dBi)	-0.5~1.5dBi	-2.5~-0.5dBi
Average Gain (dB)	-3.9~-2.9dB	-7.5~-5.2dB
VSWR	< 2.5	< 3.0
Return Loss	< -7.0	< -6.0
Polarization mode	Linear	Linear
Efficiency (%)	40~51%	18~30%
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	5	5

2. Mechanical and Environmental Specification

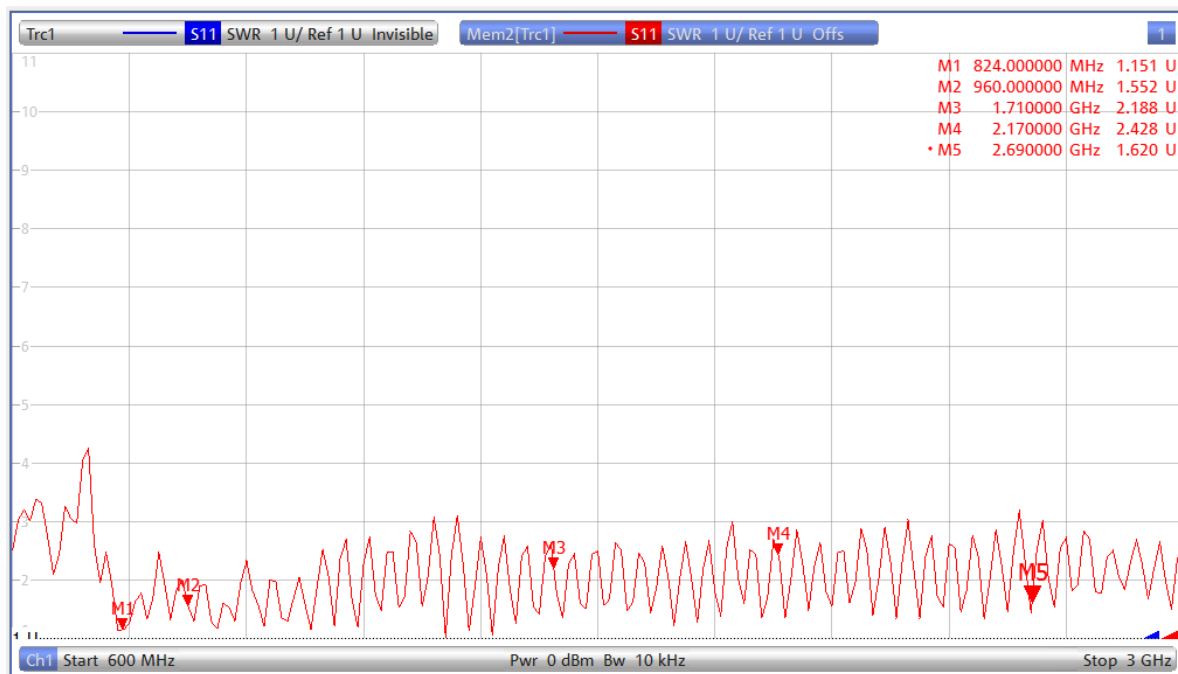
Mounting Type	Connector Mount
Connector Type	SMA Male + 2M Cable
Antenna size(mm)	ϕ 46.5mm*185mm
Material	ABS+PC
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

3. Antenna parameters

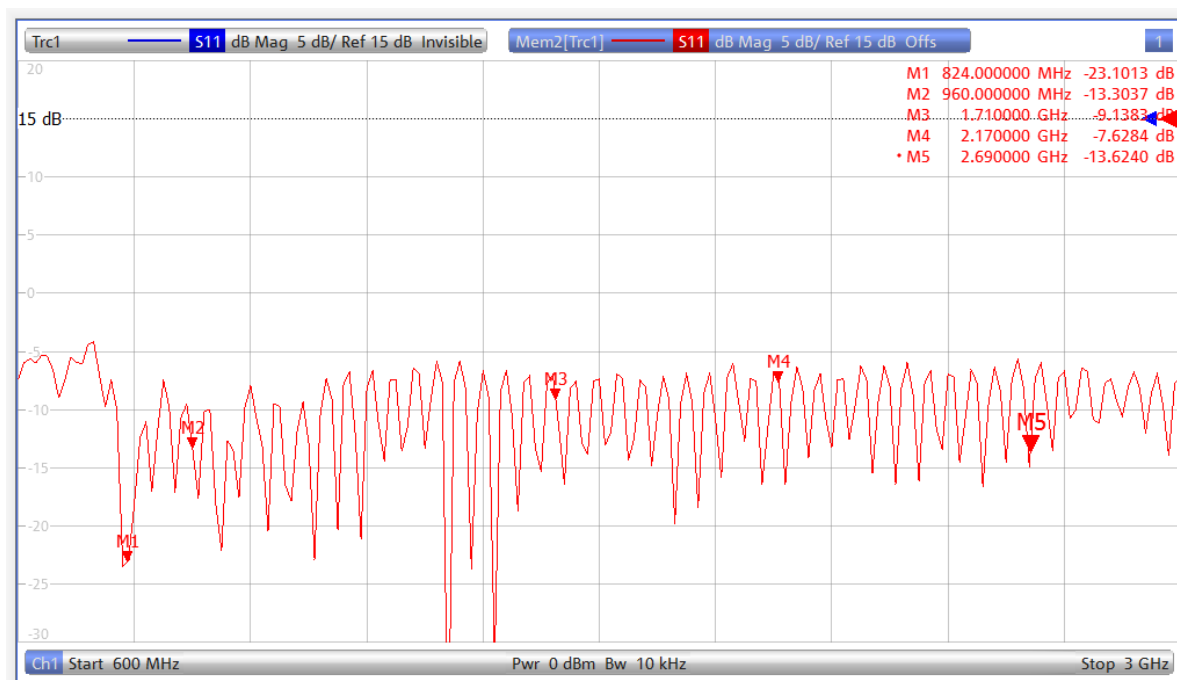
3.1 General Specification

FRE (MHz)	824	960	1710	2170	2690
VSWR	1.15	1.55	2.18	2.42	1.62
Return Loss	-23.10	-13.30	-9.13	-7.62	-13.62
Eff (%)	50.8	39.9	20.2	22.1	23.1
PEAK Gain (dBi)	1.35	-0.50	-2.45	-2.51	-2.24

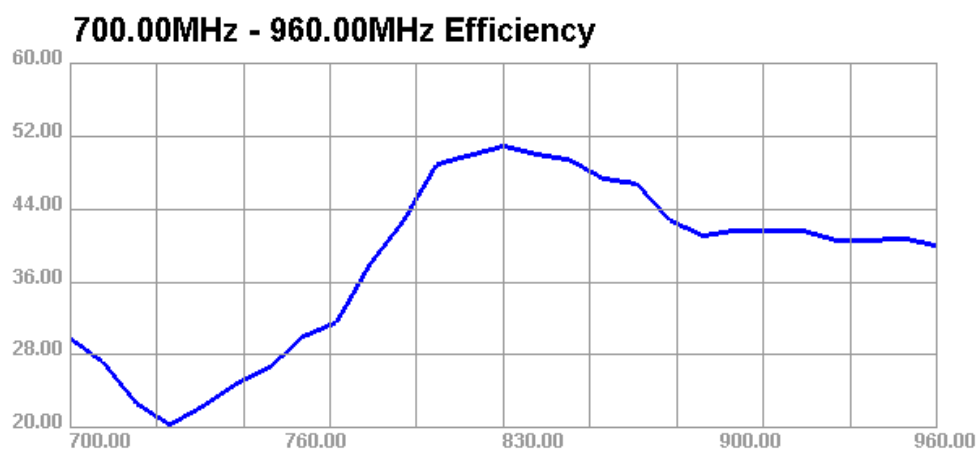
3.2 VSWR

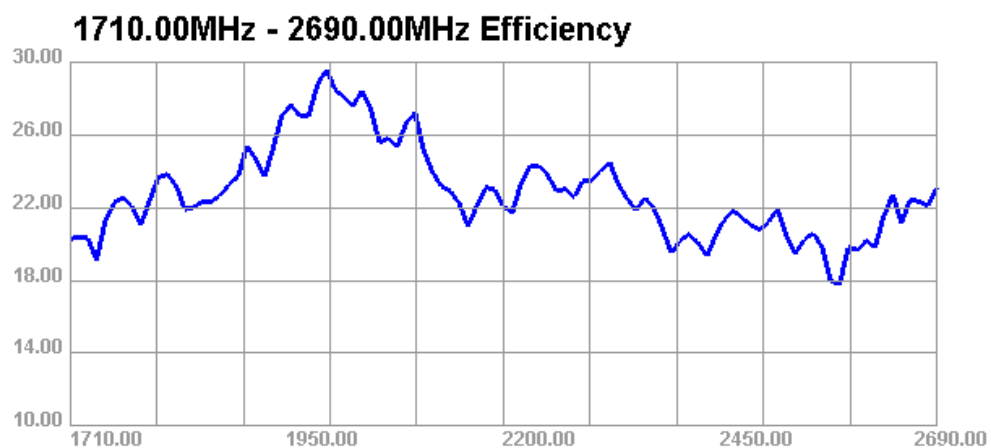


3.3 Return Loss

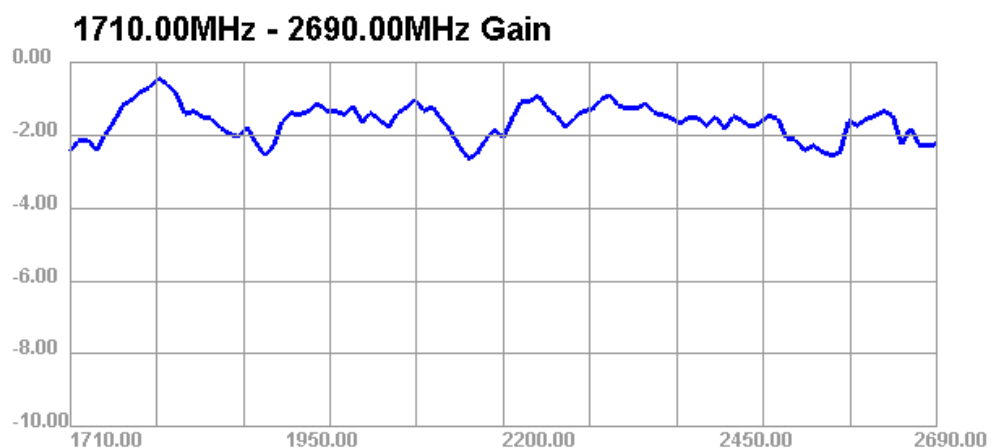
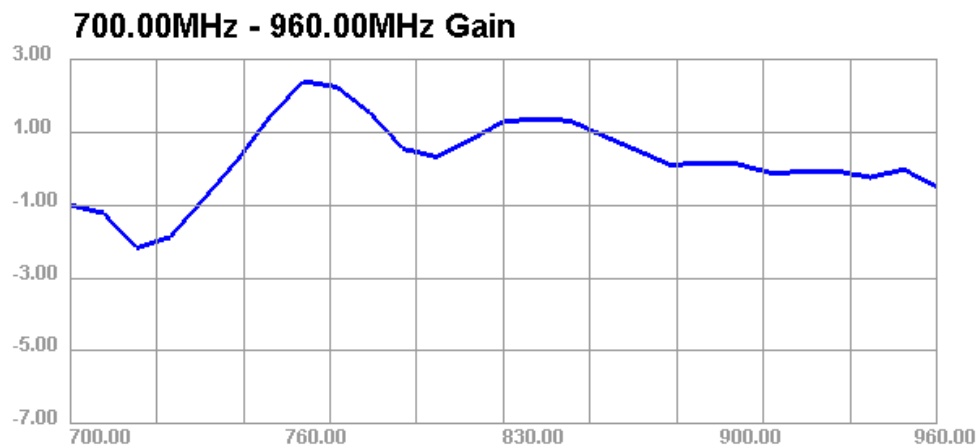


3.4 Efficiency



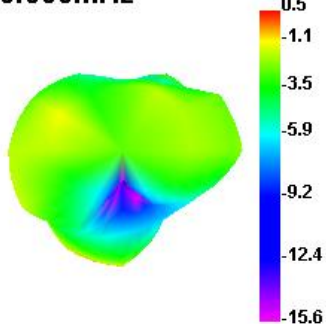


3.5 Gain

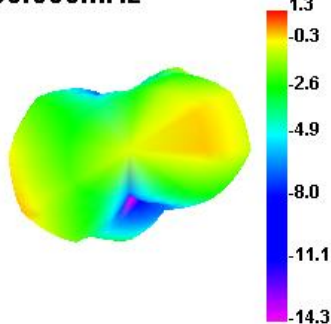


3.5 Directional Pattern

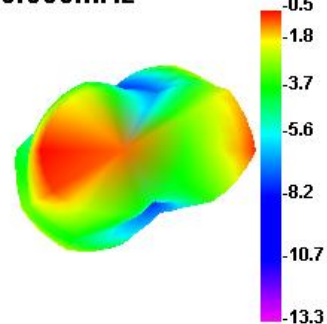
800.000MHz



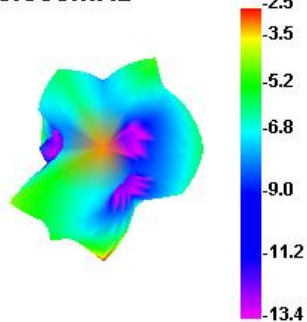
830.000MHz



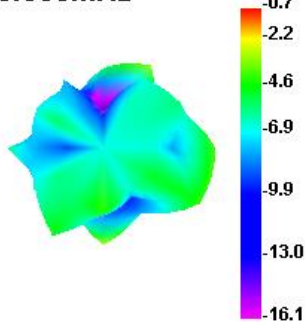
960.000MHz



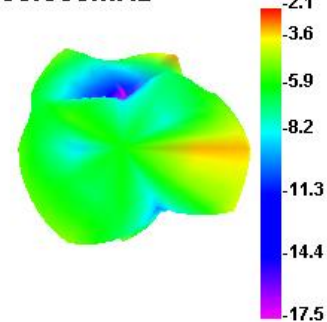
1710.000MHz



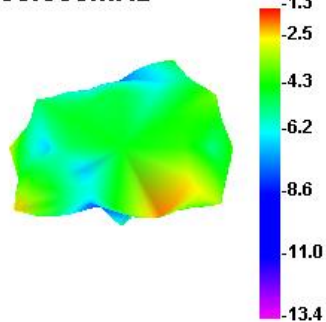
1800.000MHz



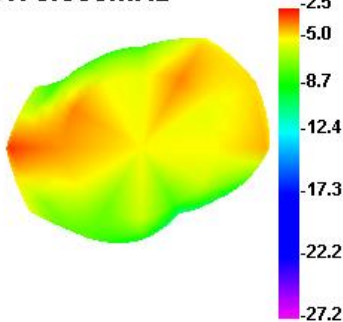
1900.000MHz



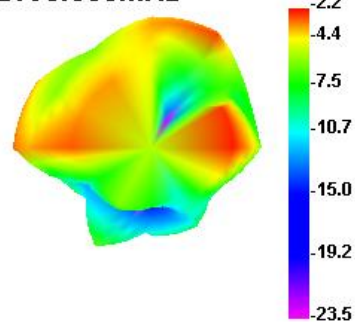
2000.000MHz



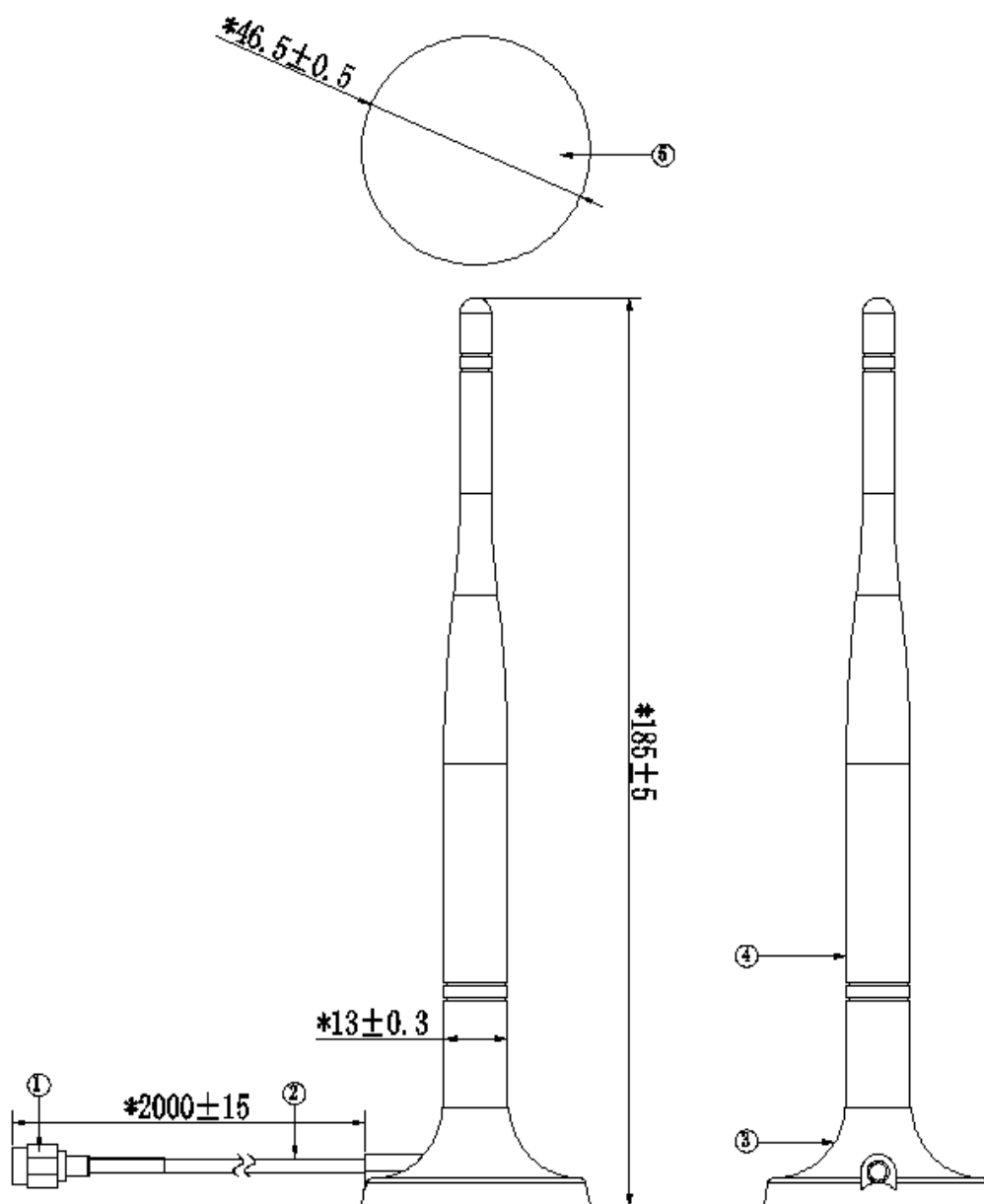
2170.000MHz



2690.000MHz



4. Antenna Drawing



5	Stickers	PC	black	1
4	main body	165mm	black	1
3	base	φ46.5mm	black	1
2	RG174 cable	RG174 cable, 2150mm	black	1
1	SMA	SMA-J	gold	1
Series	Component name	Specification	Color	Quantity